

SterilGARD® e3

ENERGY EFFICIENT ENGINEERED

ReadySAFE™

Unique operating mode that increases laboratory productivity and reduces operating costs for SterilGARD e3 biosafety cabinets.

When the cabinet is not in use, for example; overnight, at lunchtime, or during short breaks, the viewscreen can be lowered to activate the ReadySAFE mode.



- The cabinet maintains containment and clean air conditions to NSF 49 biological challenge criteria at all times
- Increases productivity by allowing user to have instantly safe working conditions upon opening the viewscreen
- Cabinet saves energy costs by reducing motor speed by up to 30%

Three important components make ReadySAFE mode possible. The Air Bypass Armrest, Cable Ports and the StediFLOW motor controller system.



The unique **Air Bypass Armrest** allows the cabinet to continue operating with the viewscreen closed.

Cable Ports allow cables and tubing to exit cabinet side walls rather than front work area, eliminating obstructions, and allowing full closure of the viewscreen.



Patent pending - Air Bypass Armrest, Cable Port, FlexAIR™

Cost Savings Using ReadySAFE

Model	Sash Height	Cost per kWh	Normal Flow			Using ReadySAFE mode 8hr Normal Flow & 16hr ReadySAFE			Savings per Year Using ReadySAFE
			kW Usage per day	Cost per day	Cost per year	kW Usage per day	Cost per day	Cost per year	
SG-403A-HE	8"	\$0.09	10.94	\$0.98	\$359.38	6.72	\$0.60	\$220.75	\$138.63
	10"	\$0.09	13.82	\$1.24	\$453.99	7.87	\$0.71	\$258.53	\$195.46
	12"	\$0.09	18.43	\$1.66	\$605.43	9.60	\$0.86	\$315.36	\$290.07
SG-503A-HE	8"	\$0.09	10.66	\$0.96	\$350.18	6.82	\$0.61	\$224.04	\$126.14
	12"	\$0.09	14.40	\$1.30	\$473.04	8.45	\$0.76	\$277.58	\$195.46
SG-603A-HE	8"	\$0.09	15.84	\$1.43	\$520.34	9.12	\$0.82	\$299.59	\$220.75
	10"	\$0.09	19.87	\$1.79	\$652.73	10.46	\$0.94	\$343.61	\$309.12
	12"	\$0.09	20.74	\$1.87	\$681.31	10.66	\$0.96	\$350.18	\$331.13

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StediFLOW™

The new high-efficiency airflow controller system for SterilGARD e3 biosafety cabinets.

StediFLOW enables the cabinet to use less energy, reduce heat output and operate more quietly. The system uses a Variable Frequency Drive AC motor blower for precise control and responsiveness.



- Maintains precise airflow in the cabinet
- No need for manual speed control
- Automatically compensates for normal power line variations, air disruptions and filter loading
- Reduces amperage required by 40-60%
- In ReadySAFE mode, reduces motor speed by up to 30%
- Operates more quietly with less vibration

Electrical Cost Savings

MODEL	KW PER DAY	COST PER DAY	COST PER YEAR	SAVINGS PER YEAR
SG403A	20.40	\$1.82	\$664.30	\$456.25
SG403A-HE	6.53	\$0.57	\$208.05	
SG603A	30.60	\$2.72	\$992.80	\$744.60
SG603A-HE	7.78	\$0.68	\$248.20	

Heat Rejection Savings

MODEL	BTU PER DAY	BTU PER YEAR	DIFFERENCE	SAVINGS PER YEAR
SG403A	69,720	25.45x10 ⁶	60,205/day	\$572.86
SG403A-HE	9,520	3.475x10 ⁶		
SG603A	104,592	38.18x10 ⁶	78,032/day	\$742.49
SG603A-HE	26,560	9.694x10 ⁶		

NOTE:

Based on U.S. Department of Energy national average cost of 9 cents per kilowatt-hour (<http://www.eia.doe.gov/fuelelectric.html>)

Based on 8-hour Working Mode, 16-hour ReadySAFE Mode

For more details on calculations, contact The Baker Company

THE BAKER COMPANY

P.O. Drawer E, Sanford, ME 04073 • (207) 324-8773 • (800) 992-2537 • Fax: (207) 324-3869 • www.bakerco.com

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